

Special Issue

Advancing Nutrient Utilization, Product Quality, and Production Efficiency in Livestock Through Omics and Targeted Molecular Approaches

Message from the Guest Editor

This Special Issue highlights the application of both omics-based and targeted molecular techniques to enhance livestock productivity, health, and product quality. The scope includes microbiome analysis, genotyping, RNA sequencing, proteomics, metabolomics, lipidomics, and targeted methodologies that identify specific biological molecules and pathways relevant to nutrient utilization, product quality, and overall production efficiency. By bridging the gap between molecular research and practical applications, this Special Issue aims to offer new perspectives, methodologies, and practical insights that inspire researchers to integrate these approaches into their work. We welcome submissions of original research, case studies, and reviews, particularly those incorporating primary datasets and novel perspectives that deepen our understanding of livestock health, product quality, and production efficiency.

Guest Editor

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Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in ‘Agriculture, Dairy & Animal Science’; 21/170 (Q1) in ‘Veterinary Sciences’), 5-Year Impact Factor: 3.2.

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